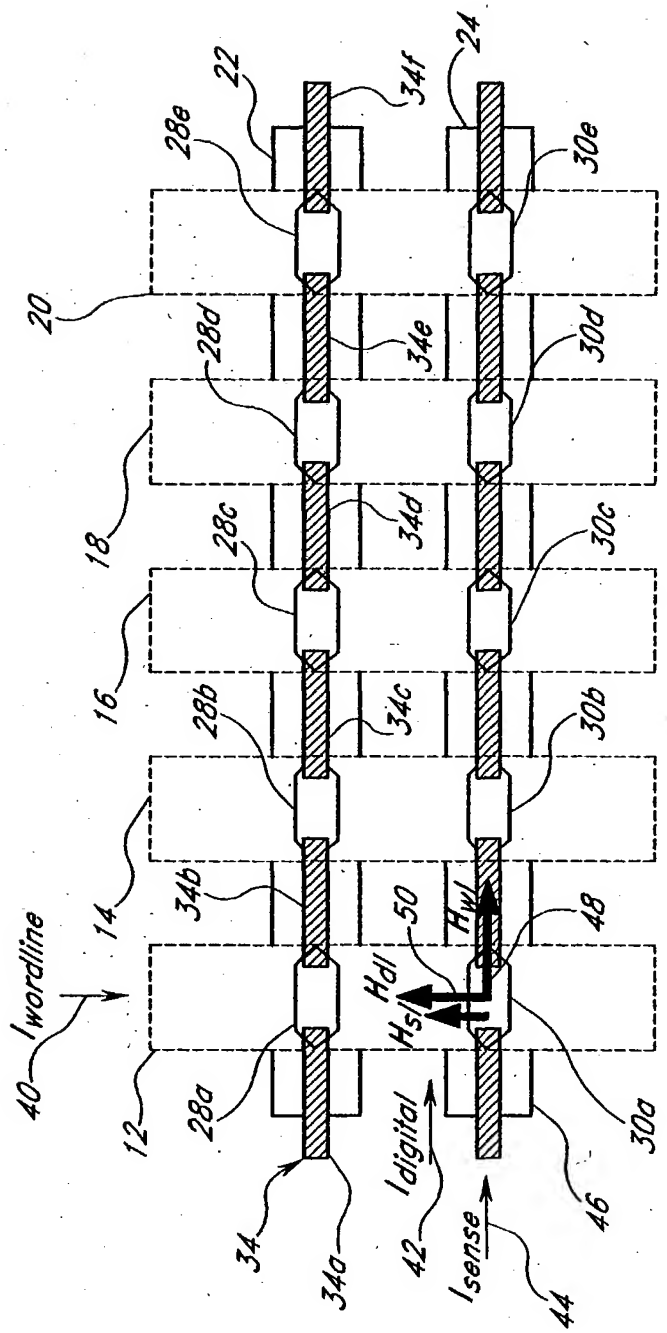

FIG. 1
(PRIOR ART)

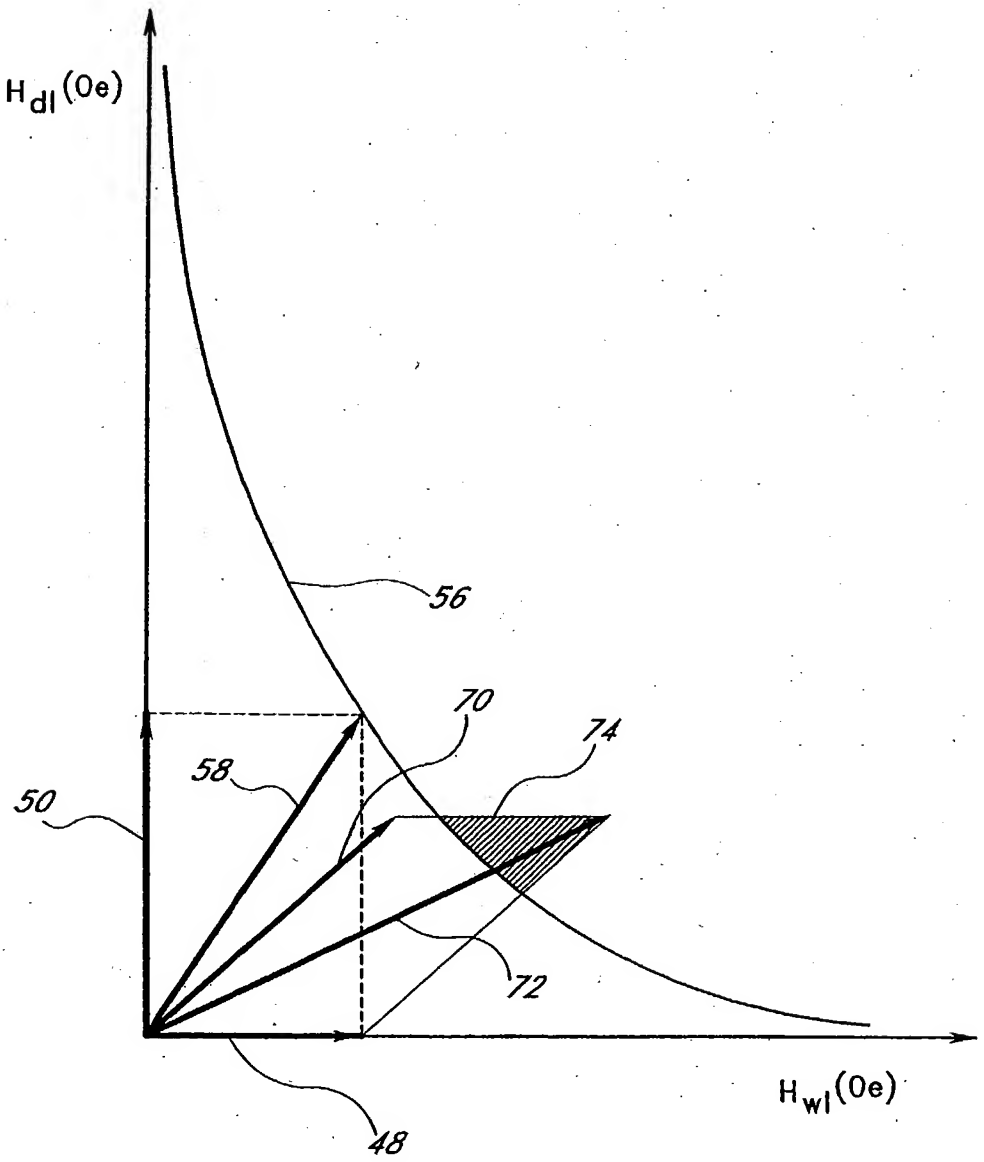

FIG. 2
(PRIOR ART)

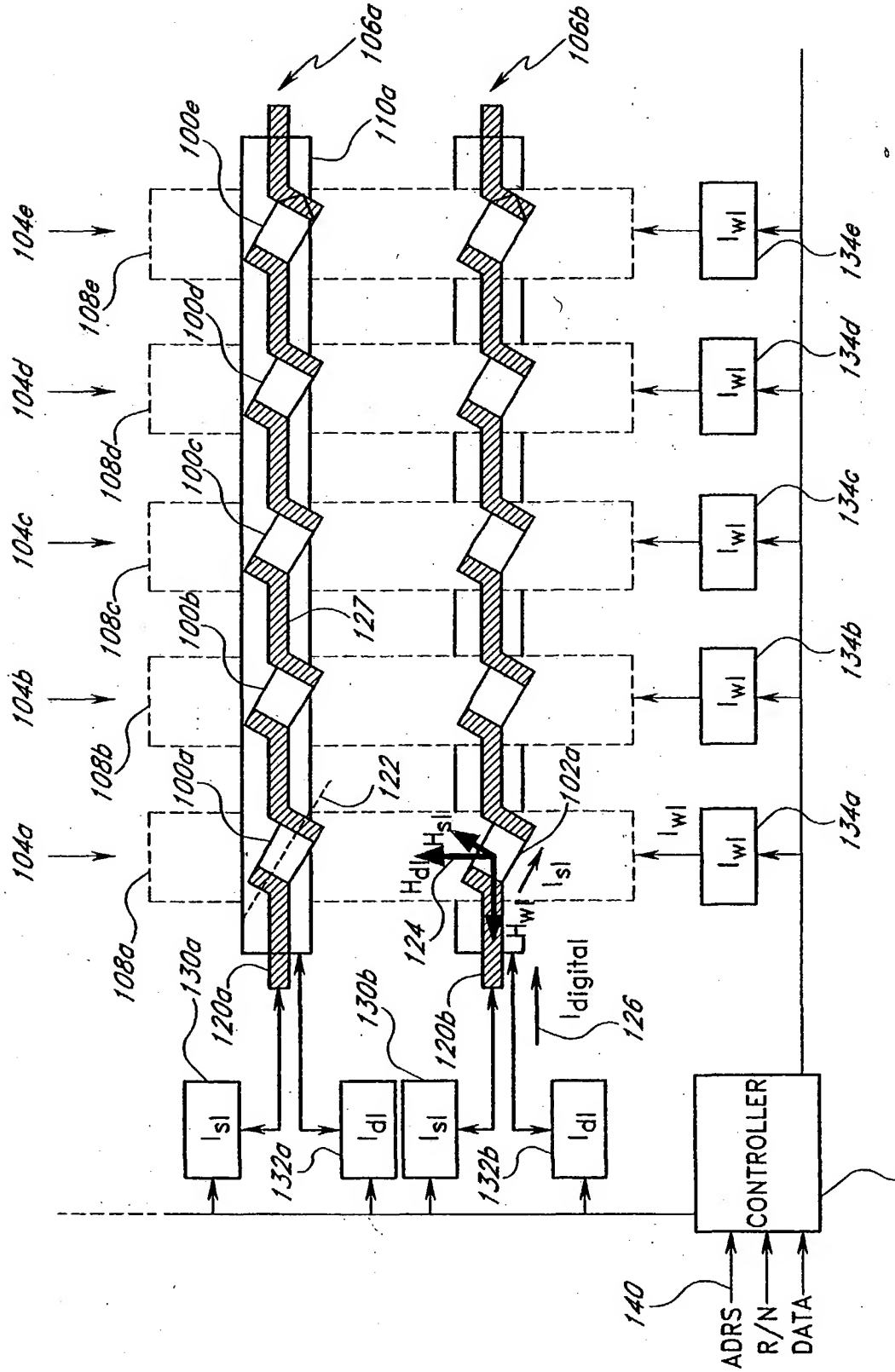
106a
106b
110a
100e
100d
100c
100b
100a
104e
104d
104c
104b
104a
108e
108d
108c
108b
108a
127
122
102a
124
130a
130b
120a
120b
126
132a
132b
134e
134d
134c
134b
134a
I_{wl}
I_{sl}
I_{dl}
$I_{digital}$
H_{sl}
H_{dl}
H_{wl}
CONTROLLER
140
ADRS
R/N
DATA

FIG. 3

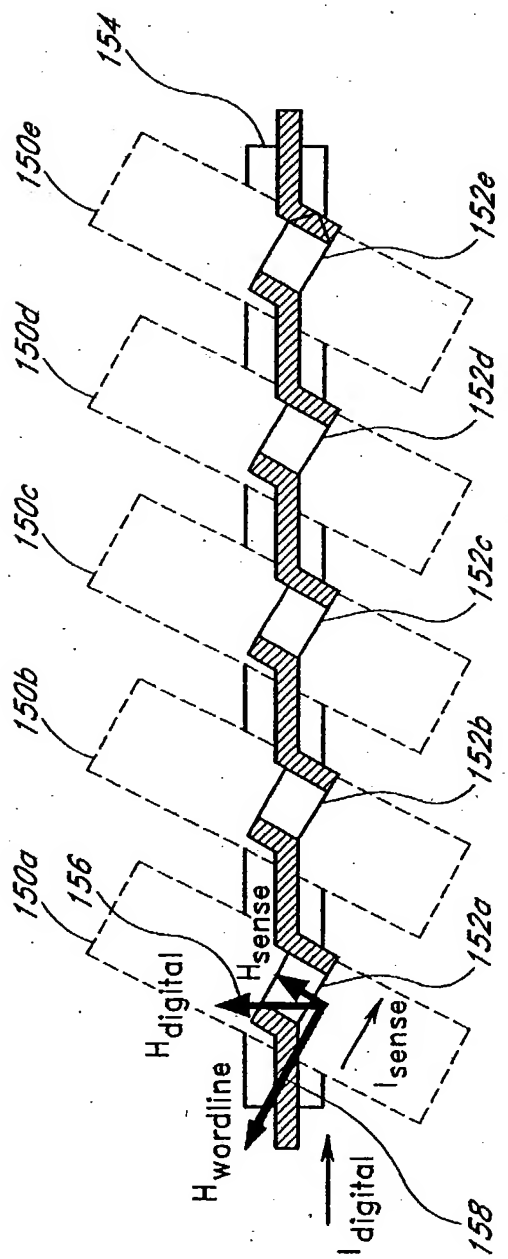
154
150e
152e
150d
152d
150c
152c
150b
152b
150a
156
152a
$H_{digital}$
H_{sense}
$H_{wordline}$
I_{sense}
$I_{digital}$
158

FIG. 4

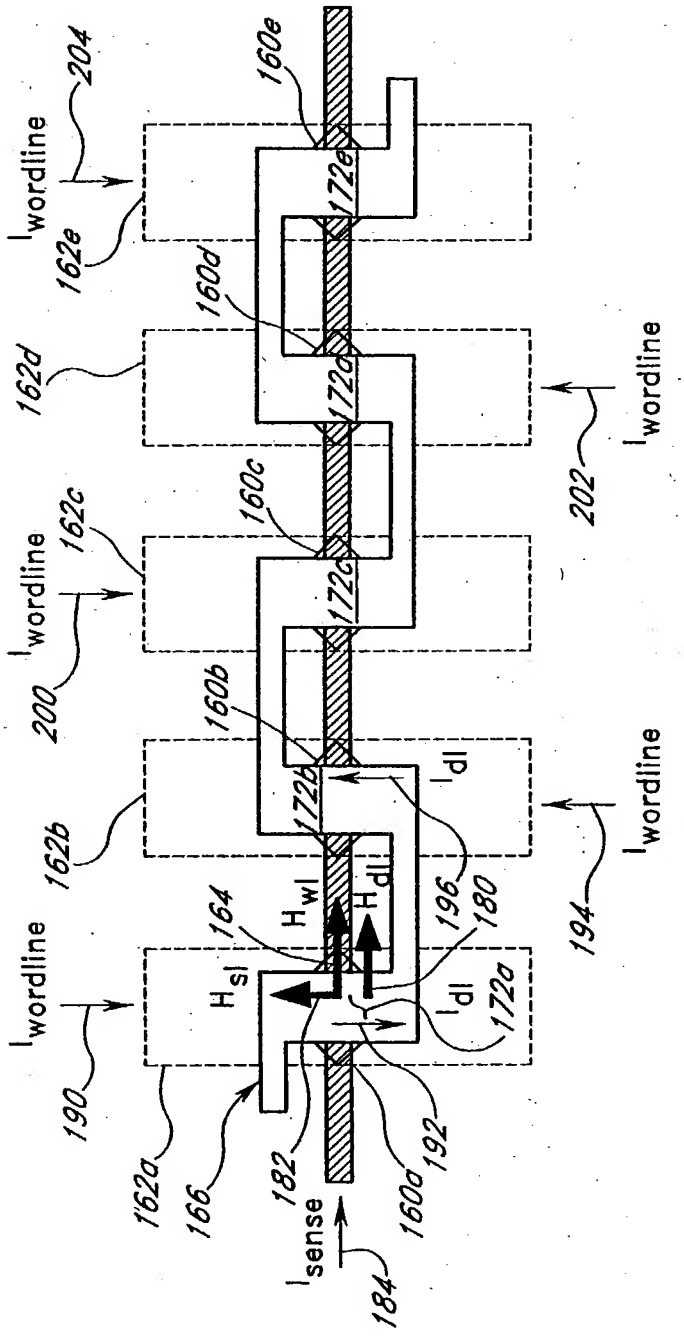
I wordline
204
162e
160e
172e
160d
162d
172d
202
160c
162c
172c
200
160b
162b
172b
I dl
196
180
194
H wl
H dl
164
H sl
I dl
172a
190
162a
166
182
I sense
184
160a
192

FIG. 5